

TABLE 37

**Preliminary federal obligations for experimental development, by agency and performer: FY 2022**

(Dollars in thousands)

Agency	Total	Intramural		Extramural				
		Federal agencies <sup>a</sup>	FFRDCs	United States and U.S. territories				Non-U.S. performers
				Businesses	Higher education <sup>b</sup>	Nonprofit organizations	State and local governments	
All agencies	100,594,656	50,879,431	4,373,221	40,234,425	2,852,861	1,913,840	88,494	252,385
Departments								
Department of Agriculture	248,877	223,283	0	0	22,931	1,698	367	599
Agricultural Marketing Service	7,484	4,050	0	0	2,659	302	350	123
Agricultural Research Service	159,900	144,145	0	0	14,255	1,008	*	475
Animal and Plant Health Inspection Service	21,217	15,247	0	0	5,970	0	0	0
Forest Service	55,136	55,136	0	0	0	0	0	0
National Agricultural Statistics Service	5,140	4,706	0	0	*	387	0	0
Department of Commerce	282,525	144,533	793	8,340	126,403	1,056	1,395	*
Census Bureau	38,560	38,560	0	0	0	0	0	0
National Institute of Standards and Technology	73,711	9,749	0	*	63,962	0	0	0
National Oceanic and Atmospheric Administration	170,254	96,224	793	8,340	62,441	1,056	1,395	*
Department of Defense, total experimental development	65,095,967	23,939,921	2,444,435	35,253,349	2,028,221	1,217,462	10,414	202,164
Defense Advanced Research Projects Agency	1,812,259	181,663	30,494	1,517,630	65,330	17,142	0	0
Defense Health Agency	2,362,905	553,586	3,092	309,357	778,275	652,651	0	65,945
Department of the Air Force	10,823,005	4,168,158	507,757	5,955,793	161,362	29,724	212	0
Department of the Army	10,844,886	4,896,625	103,908	5,467,811	136,577	199,655	0	40,310
Department of the Navy	16,587,032	7,287,341	173,385	8,595,560	390,473	123,175	304	16,795
Space Force	4,517,004	274,046	228,059	3,992,488	15,431	0	6,979	0
Other defense agencies	18,148,876	6,578,502	1,397,740	9,414,711	480,773	195,115	2,919	79,114
Department of Defense, advanced technology	10,488,317	3,091,775	261,139	4,866,070	1,205,489	930,853	2,162	130,829
Defense Advanced Research Projects Agency	1,639,449	117,031	30,494	1,409,474	65,330	17,121	0	0
Defense Health Agency	1,667,967	44,294	2,670	211,646	750,305	595,702	0	63,350
Department of the Air Force	989,532	217,027	10,497	701,876	53,452	6,468	212	0
Department of the Army	2,127,203	1,079,980	33,788	888,005	83,900	39,633	0	1,897
Department of the Navy	1,004,613	403,129	6,730	393,877	103,832	95,824	0	1,223
Other defense agencies	3,059,553	1,230,315	176,961	1,261,192	148,671	176,106	1,950	64,359
Department of Defense, major systems	54,607,650	20,848,146	2,183,296	30,387,280	822,732	286,609	8,252	71,335

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Defense Advanced Research Projects Agency	172,810	64,633	0	108,156	0	*	0	0
Defense Health Agency	694,938	509,292	422	97,710	27,971	56,949	0	2,595
Department of the Air Force	9,833,473	3,951,131	497,260	5,253,916	107,910	23,255	0	0
Department of the Army	8,717,683	3,816,644	70,120	4,579,806	52,677	160,023	0	38,413
Department of the Navy	15,582,419	6,884,212	166,656	8,201,683	286,641	27,351	304	15,572
Space Force	4,517,004	274,046	228,059	3,992,488	15,431	0	6,979	0
Other defense agencies	15,089,322	5,348,187	1,220,780	8,153,520	332,102	19,009	969	14,755
Department of Education	113,341	0	0	16,163	47,143	30,085	19,950	0
Department of Energy	3,441,231	95,675	985,966	1,893,703	440,870	10,695	14,023	300
Advanced Research Projects Agency—Energy	225,000	0	25,267	116,803	76,327	6,603	0	0
Electricity Delivery and Energy Reliability	59,302	1,341	42,885	6,786	4,016	4,092	181	0
Energy Efficiency and Renewable Energy	1,384,153	0	595,186	429,087	346,038	0	13,842	0
Environmental Management	23,450	0	19,698	0	3,752	0	0	0
National Nuclear Security Administration	1,579,646	75,832	235,723	1,268,081	*	0	0	0
Defense Programs	234,685	17,328	147,269	70,078	*	0	0	0
Naval Nuclear Propulsion Program	1,246,109	55,579	1,002	1,189,528	0	0	0	0
Office of Defense Nuclear Nonproliferation	98,852	2,925	87,452	8,475	0	0	0	0
Nuclear Energy	148,631	983	63,677	72,945	10,725	0	0	300
Office of Cybersecurity, Energy Security, and Emergency Response	21,049	17,519	3,530	0	0	0	0	0
Department of Health and Human Services	26,482,399	25,467,693	0	970,426	33,588	1,257	9,435	0
Agency for Healthcare Research and Quality	36,055	36,055	0	0	0	0	0	0
Biomedical Advanced Research and Development Authority	26,433,481	25,424,301	0	966,938	32,336	471	9,435	0
Centers for Disease Control and Prevention	12,863	7,337	0	3,489	1,252	786	0	0
Department of Homeland Security	285,068	149,940	51,853	45,634	20,181	8,274	4,145	5,041
Coast Guard	5,233	0	0	5,233	0	0	0	0
Countering Weapons of Mass Destruction Office	7,985	1,498	844	2,329	2,815	0	0	498
Cybersecurity and Infrastructure Security Agency	7,780	0	0	0	0	7,780	0	0

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Science and Technology Directorate	229,000	113,371	51,009	38,072	17,366	494	4,145	4,542
Secret Service	2,070	2,070	0	0	0	0	0	0
Transportation Security Administration	33,000	33,000	0	0	0	0	0	0
Department of the Interior	173,653	147,495	*	3,036	19,419	897	2,755	*
Bureau of Land Management	1,466	762	*	0	367	278	*	0
Bureau of Ocean Energy Management	15,724	13,417	0	1,911	94	134	166	*
Bureau of Reclamation	20,000	12,700	0	800	6,500	0	0	0
Bureau of Safety and Environmental Enforcement	250	*	0	*	219	0	0	0
Geological Survey	135,081	120,029	0	315	11,673	485	2,579	0
National Park Service	1,132	566	0	0	566	0	0	0
Department of Justice	5,865	1,097	0	1,367	3,134	0	267	0
Bureau of Prisons	*	0	0	0	0	0	*	0
Office of Justice Programs	5,857	1,097	0	1,367	3,134	0	259	0
Department of State	20,000	20,000	0	0	0	0	0	0
Department of Transportation	284,043	31,305	82,454	138,393	5,256	826	25,613	195
Federal Aviation Administration	244,578	22,235	82,080	136,152	3,426	489	0	195
Federal Highway Administration	29,775	4,162	0	0	0	0	25,613	0
Federal Motor Carrier Safety Administration	1,000	800	0	0	200	0	0	0
Federal Railroad Administration	8,690	4,108	374	2,241	1,630	337	0	0
Department of the Treasury	15,045	653	0	10,212	0	0	0	4,180
Bureau of Engraving and Printing	14,392	0	0	10,212	0	0	0	4,180
Mint	653	653	0	0	0	0	0	0
Department of Veterans Affairs	158,358	51,691	106,667	0	0	0	0	0
Other agencies								
Agency for International Development	30,487	3,200	0	1,712	12,400	2,675	0	10,500
Environmental Protection Agency	119,086	42,798	0	76,287	0	0	0	0
Library of Congress	2,406	2,406	0	0	0	0	0	0
National Aeronautics and Space Administration	3,805,240	557,741	701,003	1,793,488	89,799	633,681	130	29,398
Nuclear Regulatory Commission	3,516	0	0	0	3,516	0	0	0
Tennessee Valley Authority	27,549	0	0	22,315	0	5,234	0	0

\* = amount greater than \$0 but less than \$50,000.

FFRDC = federally funded research and development center.

<sup>a</sup> Federal agencies' activities cover costs associated with the administration of federal R&D performance and R&D procurements from nonfederal performers by federal personnel, transfers of funds to other federal agencies for purposes related to R&D, as well as actual federal performance.

<sup>b</sup> Higher education includes both public and private institutions as well as University Affiliated Research Centers.

**Note(s):**

Because of rounding, detail may not add to total. As of volume 71 (FYs 2021–22), FFRDCs are classified as intramural R&D performers, whereas they were extramural in previous volumes; therefore, data are not directly comparable across volumes. Past years in the trend tables have been adjusted to reflect the current classification of FFRDCs. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. FY 2022 obligations include additional funding provided by supplemental COVID-19 pandemic-related appropriations (e.g., Coronavirus Aid, Relief, and Economic Security [CARES] Act). See technical table A-2 for additional notes associated with the agencies listed in this table.

**Source(s):**

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2021–22.